

**ABSTRACT**

The SQL Algebrizer of the present invention comprises a plurality of algorithms to “algebrize” SQL Trees to QP Algebra using an approach that is more consistent and much more efficient than typical algebrizers. More specifically, the Algebrizer of the present invention processes a SQL Tree using a reduced number of recursive depth-first passes by performing multiple operations in a single pass. Furthermore, the Algebrizer of the present invention also performs the operation of constant folding in this single, multi-operation pass so that the QP, upon receiving the QP Algebra, needs not perform this operation at all.